

# Dr. Pritam Chattopadhyay

Assistant Professor of Botany, M.U.C. Women's College, Burdwan – 713104, West Bengal, India

Permanent Address: South-East Kumle Pukur, Sonatore Para, Siuri, - 731101, Birbhum, W.B., India

Date of Birth: 8<sup>th</sup> Dec., 1983

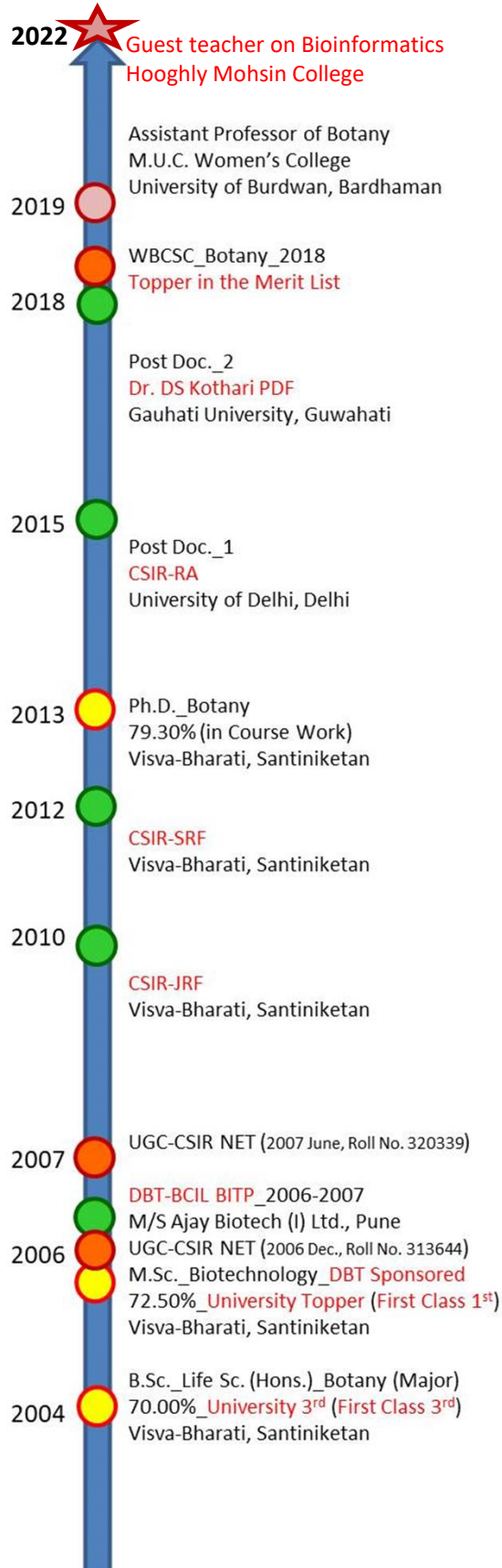
E-mail ID: [pritam.biotechnol@gmail.com](mailto:pritam.biotechnol@gmail.com)

website: [www.drpritam.com](http://www.drpritam.com)

Phone: +91 7001009127



## ACADEMIC PROFILE



## TEACHING SUBJECTS

**B.U. M.Sc. Botany CBCS**

**MSBO 402: Bioinformatics**

**B.U. B.Sc. (H.) Botany CBCS**

Odd Sem.

CCI: Microbiology & Phycology:  
Unit 1-4; CCV: Plant Ecology &  
Phytogeography: Unit 1-5; SECI:  
Agricultural Botany: Unit 3;  
CCXI: Plant Physiology: Unit 3&5;  
CCXII: Plant Metabolism; Unit 3-  
5; DSEII: Bioinformatics: All Units

Even Sem.

CCIII: Mycology & Phytopatho:  
Unit 7-9; CCX: Mol Biol: Unit 4&6;  
CCXIII: Genetics & Plant Breeding:  
Unit 3,9,&10; CCXIV: Plant  
Biotechnol: Unit 3&5; DSEIII: Plant  
Evo & Div: Unit 2-3; DSEIV:  
Industrial Microbio: Unit2-4

## RESEARCH SUBJECTS

Project

Studies on type III secretion system (T3SS) on virulence determinants of symbiotic and pathogenic bacteria

Mentor: Prof. Pratap J. Handique

Project

Regulation of heat shock proteins in *Drosophila melanogaster* populations simultaneously selected for faster pre-adult development and late reproduction.

Mentor: Prof. Mallikarjun Shakarad

Topic

Assessment of Genetic Diversity at Inter- and Intra-specific Levels of the Genus *Dendrobium* (Orchidaceae) through Micromorphological Characters and Molecular Markers

Guide: Prof. Nirmalya Banerjee

Project

Assessment of Genetic Diversity at Inter- and Intra-specific Levels of the Genus *Dendrobium* (Orchidaceae) through Micromorphological Characters and Molecular Markers

Guide: Prof. Nirmalya Banerjee

Project

Product Development and Bioefficacy study on Biofertilizer and Biopesticide

Dissertation

Apoptotic death of *Aeromonas hydrophila* infected Macrophages of Swiss Albino Mice

Guide: Prof. Shibnath Mazumder

Dissertation

Study of Microbiological Properties of Some Important Drinking Water Sources of Visva-Bharati

Guide: Prof. Narayan C. Mandal

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## RESEARCH PROFILE

➤ **Web of Science Researcher ID: F-6196-2013**

➤ **ORCID ID:** [0000-0003-0238-5680](https://orcid.org/0000-0003-0238-5680)

➤ **Publications at a glance:**

	Paper in peer reviewed journals		Book chapter in edited books		Books		Abstracts in Seminar/Symposia/Workshop	
	International	National	International	National	International	National	International	National
Published	30	01	02	03	05	00	04	09
Accepted	00	00	02	00	00	00	00	00

➤ **Publication indices:**

**No. of paper IN PEER REVIEWED JOURNALS: 31**

**No. of paper having NAAS Score >7: 14**

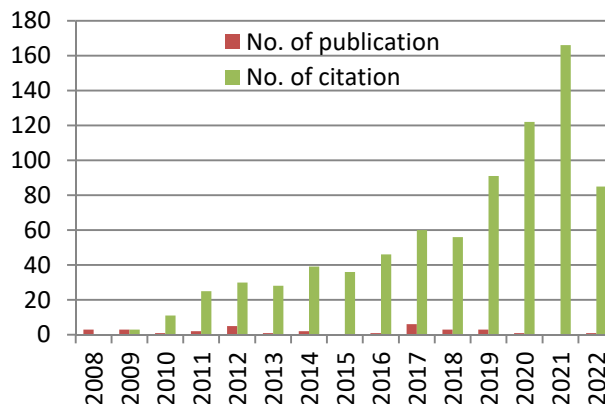
**Cumulative impact factor (Clarivate Analytics): 48.923**

**Citation (Google Scholar): 898**

**i10-index (Google Scholar): 18**

**h-index (Google Scholar): 13**

➤ **Publication metrics:**



➤ **Research grant received:**

- Biotechnology Ignition Grant Scheme (**BIG**) from Biotechnology Industry Research Assistance Council (**BIRAC**) for “**Scale-up of Nature Identical Vanillin Production from Biotransformation of Agro-waste(s)**”. Principal Investigator (**PI**). BIRAC/KIIT0813/BIG-15/19 (**Sanctioned Budget 50 Lakh**)

➤ **Consultancy:**

- Green Biotech Eco Solutions, Lamsang, Manipur (BIRAC Project)
- CNCB Academy of Science and Technology, Patuari, Odisha (AKRUTI Project)

➤ **Collaborations:**

- University of Wyoming, Laramie
- University of Calcutta, Kolkata
- M/S Ajay Biotech (I) Ltd., Pune
- Texas Tech University, Texas
- Gauhati University, Guwahati
- Rashi Biotech Pvt. Ltd., Pune
- Kyung Hee University, Seoul
- NAU, Navsari

➤ **Editorial/Review member:**

- The Journal of Biochemistry (**JBC**). Oxford University Press. ISSN: 0021-924X
- Reviews in Environmental Science and Bio/Technology (**RESB**). Springer, ISSN: 1569-1705
- Vegetos (**VTOS**). Springer. ISSN: 2229-4473

➤ **Review metrics:**

- **Verified review (Publons): 08**
- **Review to publication ratio (Publons): 1:0.3**

➤ **Recognition/ Society member:**

- “Life member” of Association of Microbiologists of India (ID: AMI 5/2011)
- “Quarterly Franklin Membership” from London Journals Press (ID: KN71202)

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## SELECTED PAPERS PUBLISHED IN JOURNALS

### Fermentation Technology

1. Banerjee, G. and **Chattopadhyay, P.\***, 2019. Vanillin biotechnology: the perspectives and future. *Journal of the Science of Food and Agriculture*, 99(2), pp.499-506. ISSN: 0022-5142 DOI: [10.1002/JSFA.9303](https://doi.org/10.1002/JSFA.9303)

IF: 4.125

NAAS Score: 9.64

Cited by: 126

2. **Chattopadhyay, P.**, Banerjee, G. and Sen, S.K., 2018. Cleaner production of vanillin through biotransformation of ferulic acid esters from agroresidue by *Streptomyces sannanensis*. *Journal of Cleaner Production*, 182, pp.272-279. ISSN: 0959-6526 DOI: [10.1016/J.JCLEPRO.2018.02.043](https://doi.org/10.1016/J.JCLEPRO.2018.02.043)

IF: 11.072

NAAS Score: 15.30

Cited by: 47

3. Goswami, R., **Chattopadhyay, P.**, Shome, A., Banerjee, S.N., Chakraborty, A.K., Mathew, A.K. and Chaudhury, S., 2016. An overview of physico-chemical mechanisms of biogas production by microbial communities: a step towards sustainable waste management. *3 Biotech*, 6(1), p.72. ISSN: 2190-572X DOI: [10.1007/S13205-016-0395-9](https://doi.org/10.1007/S13205-016-0395-9)

IF: 3.446

NAAS Score: 8.41

Cited by: 92

4. Chatterjee, S., Maity, S., Roy, S., **Chattopadhyay, P.**, Sarkar, A. and Sen, S.K., 2008. Production optimization, purification and toxicological assessment of extracellular red pigment from *Monascus purpureus* in submerged culture. *Journal of Biotechnology*, (136), pp.S743-S744. DOI: [10.1016/j.jbiotec.2008.07.1770](https://doi.org/10.1016/j.jbiotec.2008.07.1770)

IF: 3.596

NAAS Score: 9.31

Cited by: 02

### Biocontrol

5. **Chattopadhyay, P.**, Banerjee, G. and Handique, P.J., 2022, Use of an abscisic acid-producing *Bradyrhizobium japonicum* isolate as biocontrol agent against bacterial wilt disease caused by *Ralstonia solanacearum*. *Journal of Plant Diseases and Protection*. <https://doi.org/10.1007/s41348-022-00604-9>

IF: 1.933

NAAS Score: 7.93

Cited by: 03

6. **Chattopadhyay, P.** and Banerjee, G., 2018. Recent advancement on chemical arsenal of Bt toxin and its application in pest management system in agricultural field. *3 Biotech*, 8(4), p.201. ISSN: 2190-572X DOI: [10.1007/S13205-018-1223-1](https://doi.org/10.1007/S13205-018-1223-1)

IF: 3.446

NAAS Score: 8.41

Cited by: 25

7. Banerjee, G., Gorthi, S. and **Chattopadhyay, P.\***, 2018, Beneficial effects of bio-controlling agent *Bacillus cereus* IB311 on the agricultural crop production and its biomass optimization through response surface methodology. *Anais da Academia Brasileira de Ciências* (Annals of the Brazilian Academy of Sciences) 90, pp.2149-2159. ISSN: 1678-2690 DOI: [10.1590/0001-3765201720170362](https://doi.org/10.1590/0001-3765201720170362)

IF: 1.753

NAAS Score:

Cited by: 12

8. **Chattopadhyay, P.**, Banerjee, G. and Mukherjee, S., 2017. Recent trends of modern bacterial insecticides for pest control practice in integrated crop management system. *3 Biotech*, 7(1), p.60. ISSN: 2190-572X DOI: [10.1007/S13205-017-0717-6](https://doi.org/10.1007/S13205-017-0717-6)

IF: 3.446

NAAS Score: 8.41

Cited by: 10

9. Kulkarni, M., Gorthi, S., Banerjee, G. and **Chattopadhyay, P.\***, 2017, Production, characterization and optimization of actinomycin D from *Streptomyces hydrogenans* IB310, an antagonistic bacterium against Phytopathogens. *Biocatalysis and Agricultural Biotechnology* 10, pp.69–74. ISSN: 1878-8181 DOI: [10.1016/j.bcab.2017.02.009](https://doi.org/10.1016/j.bcab.2017.02.009)

IF: 3.281

NAAS Score:

Cited by: 23

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## SELECTED PAPERS PUBLISHED IN JOURNALS

### Aquatic Microbiology

10. Saikia, D.J., **Chattopadhyay, P.**, Banerjee, G., Talukdar, B. and Sarma, D., 2018. Identification and Pathogenicity of *Pseudomonas aeruginosa* DJ1990 on Tail and Fin Rot Disease in Spotted Snakehead. *Journal of the World Aquaculture Society*, 49(4), pp.703-714. ISSN: 0893-8849 DOI: [10.1111/JWAS.12476](https://doi.org/10.1111/JWAS.12476)

IF: 3.402

NAAS Score: 8.51

Cited by: 04

11. Saikia, D.J., **Chattopadhyay, P.**, Banerjee, G. and Sarma, D., 2017. Time and dose dependent effect of *Pseudomonas aeruginosa* infection on the scales of *Channa punctata* (Bloch) through light and electron microscopy. *Turkish Journal of Fisheries and Aquatic Sciences*, 17(5), pp.871-876. ISSN: 1303-2712 DOI: [10.4194/1303-2712-V17\\_5\\_03](https://doi.org/10.4194/1303-2712-V17_5_03)

IF: 1.443

NAAS Score: 7.26

Cited by: 10

12. Majumdar, T., **Chattopadhyay, P.**, Saha, D.R., Sau, S. and Mazumder, S., 2009. Virulence plasmid of *Aeromonas hydrophila* induces macrophage apoptosis and helps in developing systemic infection in mice. *Microbial Pathogenesis*, 46(2), pp.98-107. DOI: [10.1016/j.micpath.2008.11.002](https://doi.org/10.1016/j.micpath.2008.11.002)

IF: 3.848

NAAS Score: 9.74

Cited by: 21

### Bioinformatics

13. Banerjee, B., Quan F.S., Mondal, A.K., Sur, S., Banerjee, P., Chattopadhyay P.\*, 2022. Interrelation between Stress Management and Secretion Systems of *Ralstonia solanacearum*: An In Silico Assessment. *Pathogens*, 11, p730. <https://doi.org/10.3390/pathogens11070730>

IF: 4.531

NAAS Score: 9.02

Cited by:

14. Banerjee, G., Basak, S., Roy, T. and **Chattopadhyay, P.\***, 2019. Intrinsic role of bacterial secretion systems in phylogenetic niche conservation of *Bradyrhizobium*. *FEMS Microbiology Ecology*. 95 (1),fz165. ISSN: 0168-6496 DOI: [10.1093/femsec/fiz165](https://doi.org/10.1093/femsec/fiz165)

IF: 4.194

NAAS Score: 10.19

Cited by: 02

15. **Chattopadhyay, P.** and Banerjee, G., 2019. Corticosteroid Catabolism by *Klebsiella pneumoniae* as a Possible Mechanism for Increased Pneumonia Risk. *Current Pharmaceutical Biotechnology*, 20, pp.309-316. ISSN: 1389-2010 DOI: [10.2174/1389201020666190313153841](https://doi.org/10.2174/1389201020666190313153841)

IF: 2.829

NAAS Score: 8.84

Cited by: 01

16. **Chattopadhyay, P.**, Banerjee, G. and Banerjee, N., 2017. Distinguishing orchid species by DNA barcoding: increasing the resolution of population studies in plant biology. *Omics - A journal of integrative biology*, 21(12), pp.711-720. ISSN: 1536-2310 DOI: [10.1089/OMI.2017.0131](https://doi.org/10.1089/OMI.2017.0131)

IF: 3.978

NAAS Score: 9.37

Cited by: 11

## SELECTED BOOK CHAPTERS

1. **Chattopadhyay, P.** and Banerjee, G., 2020. Arms Race between Insecticide and Insecticide Resistance and Evolution of Insect Management Strategies in Srivastava, P.K., Singh, V.P., Singh, A., Tripathi, D.K., Singh, S., Prasad, S.M. and Chauhan, D.K. (Eds.) "*Pesticides in Crop Production Physiological and Biochemical Action*". JohnWiley & Sons, Inc., 111 River Street, Hoboken, NJ 07030, USA. pp.109-130. ISBN: 9781119432203 DOI: [10.1002/9781119432241.ch7](https://doi.org/10.1002/9781119432241.ch7)

Cited by: 00

2. Sinha, S., **Chattopadhyay, P.** and Sen, S.K., 2012. Microbial Degradation of Recalcitrant PAHs- Microbial Diversity Involving Remediation Process in Singh S.H. (Ed.) "*Microbial Degradation of Xenobiotics (Environmental Science and Engineering)*". Springer-Verlag Berlin Heidelberg, Germany. pp.395-410. ISBN: 9783642237898 DOI: [10.1007/978-3-642-23789-8\\_15](https://doi.org/10.1007/978-3-642-23789-8_15)

Cited by: 07